CONTENTS

Vol. 105, No. 1, September, 1971

Negative Chronotropic Response to Phenylephrine of the Canine S-A Node *K. Hashimoto, S. Chiba and K. Hashimoto* 1

Microvibration on the Scalp as a Diagnostic Aid in Orthostatic Dysregulation *K. Igarashi* 11

Pyridoxine Dependent Convulsion: Effect of Pyridoxine Therapy on Electroencephalograms *K. Iinuma, K. Narisawa, N. Yamauchi, T. Yoshida and T. Mizuno* 19

Adrenal Cortical and Medullary Responsiveness to Insulin-induced Hypoglycemia *O. Shibata* 27

Some Aspects of Androgen Secretion by the Canine Adrenal *K. Egashira* 35

Analgesic Effect of Morphine Glucuronides *K. Shimomura, O. Kamata, S. Ueki, S. Ida, K. Oguri, H. Yoshimura and H. Tsukamoto* 45

Alkaline Phosphatase Isozyme in Rats with Damage in Hepatobiliary Tract *K. Kang* 53

Responses of Plasma LH to Insulin-induced Hypoglycemia, Vasopressin, Premarin and Clomiphene *H. Demura, R. Demura, M. Iino, T. Nunokawa, H. Baba and K. Miura* 65

An Experimental Study on Coagulating Effect of Various Mucosubstances on Calcium Carbonate Suspension *T. Yamashita* 75

Purification and Properties of N-Acetylglucosamine Kinase from Rat Liver *H. Saeki, R. Suzuki and S. Tsuiki* 87

Direct Perfusion of the Canine Ventricular Septum *via* the Anterior Septal Artery *K. Hashimoto and K. Hashimoto* 99

Vol. 105, No. 2, October, 1971

Identification of Individual Acid Mucopolysaccharide in Tissue Sections *Y. Sasai* 101

Nerve Distribution in Human Fetal Appendages, Particularly in the Umbilical Cord *T. Fujiyama, R. Yamaguchi and K. Noda* 111

Paralytic Poliomyelitis in Children with or without Immunization against Poliomyelitis *T. Nakao, S. Chiba, K. Horino and Y. Chiba* 123

Relationship between Histochemical Alkaline Phosphatase Activity in the Placenta and Patterns of Serum Heat-stable Alkaline Phosphatase in Late Pregnancy *R. Yamaguchi, K. Noda and T. Fujiyama* 129

Radioisotope Penogram by Means of ^{113m}In-microcolloid *M. Shirai and M. Nakamura* 137

Relationship between High Density Lipoprotein and Alkaline Phophatase in the Sera from Patients with Liver Metastasis of Cancer *K. Kang, S. Ohira, T. Saito, A. Nagai and Y. Miura* 141

Increased Cholesterol-biosynthesis in Familial Hypercholesterolemia *N. Chida and T. Okamura* 147

Changes of Plasma Creatine Phosphokinase Activity in Dogs Following Intravenous Injection of the Enzyme *T. Kotoku, K. Ito, K. Watanabe and T. Nakamura* 157

Clinical Significance of Serum Creatine Phosphokinase Activity in Cerebrovascular Diseases *T. Kotoku, H. Kawakami, T. Iwabuchi, T. Sato, T. Kutsuzawa and T. Nakamura* 167

On Peripheral Nerves Controlling Ejaculation *Y. Kimura* 177

Studies of Cytomegalovirus Infection in Newborn Infants *T. Nakao, S. Chiba, M. Ohsaki and S. Ikeda* 191

Cholinergic Spontaneous Junctional Potentials in Guinea-pig Vas Deferens *H. Inomata and T. Suzuki* 197

Effects of Imidazole and Phentolamine on the Relaxant Responses of Guinea-pig Taenia Coli to Transmural Stimulation and to Adenosine Triphosphate *A. Rikimaru, Y. Fukushi and T. Suzuki* 199

Vol. 105, No. 3, November, 1971

Histopathologic Structure of Adenocarcinomas Induced in Glandular Stomach of Rat by N-Methyl-N′-nitro-N-nitrosoguanidine *T. Sato* 201

Experimental Study on the Correlation between the Pancreas and Parotid Gland *G. Kakizaki, N. Noto, T. Onuma, T. Saito and S. Izumi* 223

Reinnervation of the Denervated Muscle by Direct Nerve Implantation in Cats *M. Sakurai and J.B. Campbell* 233

Postmortem Blood Microbiology Using Sterile Autopsy Technique *G. Niwayama* 247

Mycoplasmas (PPLO) and Human Neoplasms *G. Niwayama and J. T. Grace, Jr.* 257

Fine Structure of the Infiltrative Cells in the Lamina Propria of the Human Nasal Mucosa in Allergy *T. Takasaka* 281

Relaxing Substance (Substance R) Extracted from the Bovine Brain *T. Suzuki, A. Rikimaru and Y. Fukushi* 301

Effect of Ingestion of Food on Adrenal 17-Hydroxycorticosteroid Secretion in the Dog *T. Suzuki, R. Higashi, H. Tanigawa, H. Ikeda and K. Tamura* 303

Negative Dromotropic Response to Phenylephrine Blocked by Phenoxybenzamine *K. Hashimoto, T. Iijima, N. Taira and K. Hashimoto* 305

Vol. 105, No. 4, December, 1971

Genetic Studies on Twins of Down's Syndrome with 47-Chromosomes *H. Shiono, S. Kasahara, A. Toyoguchi, N. Watanabe, S. Fugita and M. Yamaguchi* 309

Inactivation of Human Chorionic Gonadotropin Extracted from Chorionic Tissue and Serum by Neuraminidase *H. Kunii* 317

Epidemiological, Clinical and Serological Studies on Mumps Epidemic in an Infant Nursery *S. Ikeda, S. Chiba, Y. Chiba, T. Nakao and S. Fukui* 327

Renal Arteriography in Standing Position for Movable Kidney *T. Hariu, K. Ujiie, H. Mishina and N. Nakano* 339

Cytological Studies on the Enterochromaffin Cells in the Intestinal Metaplasia *A. Nabeyama and T. Ogata* 355

Histometrical Studies of the Pulmonary Artery in Sudden Death of Young and Apparently Healthy Subjects *T. Niwa* 365

Submucosal Extension with Spherical Appearance of Esophageal Carcinoma into Gastric Cardia — Clinico-pathologic Study of Four Cases *S. Hosoda, T. Nagayo, T. Suchi, T. Sato, S. Miyaishi, H. Kato and K. Sakurai* 381

A Device for Automatic Plotting of the Atrioventricular Conduction Time *N. Taira, T. Iijima, K. Hashimoto and K. Hashimoto* 391

Studies on Radioactive Iodination of Fluorescein Isothiocyanate *K. Sagisaka and H. Iwabuchi* 397

Measurement of Collateral Flow at Quasialveolar Level in Excised Dog Lung *T. Takishima, K. Ishikawa, T. Sasaki, H. Sasaki and T. Nakamura* 405